

Team 2



Campus cuisine Exchange



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INTRODUCTIONS

Team



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Product Manager |
Backend Testing



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DevOps Engineer |
Testing



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Frontend Developer |
Frontend Testing



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Backend Testing |
Devops

Our vision

The "Campus Cuisine Exchange" is a dedicated platform designed to simplify the way university students access and manage their culinary resources. By offering an extensive range of affordable and diverse recipes, along with a convenient marketplace for buying and selling surplus groceries, this app helps students streamline their meal-planning process and optimize their food spending. With user-friendly browsing tools and intuitive search filters, students can quickly find recipes that fit their budget, available ingredients, and personal preferences. The grocery marketplace further reduces waste and expenses by allowing users to purchase items at lower costs or sell their own surplus. Overall, the "Campus Cuisine Exchange" aims to promote smarter food choices, financial savings, and efficient use of resources within the university community.

MVP

- 1 Provide affordable, easy-to-find recipes tailored to student budgets and time constraints.
- 2 Offer a grocery marketplace for buying and selling surplus ingredients to reduce food waste.
- 3 Increase efficiency and convenience in discovering, organizing, and preparing meals.
- 4 Enable informed decision-making with clear recipe details and user ratings.
- 5 Empower users to create, and save their own recipes, enabling customization and easy access to personalized meal ideas.
- 6 Address dietary restrictions and allergies by tailoring recipe suggestions and meal plans to individual needs for a safer, inclusive experience.

User Stories

USER STORY 1

User authentication:

Ensures secure access for university students with a valid email and strong password during sign-up. Users provide basic details like name and Email ID, while login and logout features ensure safe profile access.

Recipe Management:

Recipe management allows students to create, and delete recipes with details like name, ingredients, steps, cost, and photos.

← USER STORY 2

USER STORY 3

Grocery Marketplace:

Lets students buy and sell surplus groceries to save money and reduce waste. Users can create item listings, search for specific items, and delete listings when needed.

Recipe Browsing & Search:

Help students find meal ideas efficiently. Users can explore recipes by popularity or cost and search by keywords, ingredients, meal type, or preparation time, with key details provided.

← USER STORY 4

Features

RECIPE MANAGEMENT

Create, save, and search for personalized recipes with detailed instructions, cost estimates, and optional photos.

GROCERY MARKETPLACE

Buy and sell surplus groceries with detailed listings, category filters, and pricing information to reduce waste and save money.

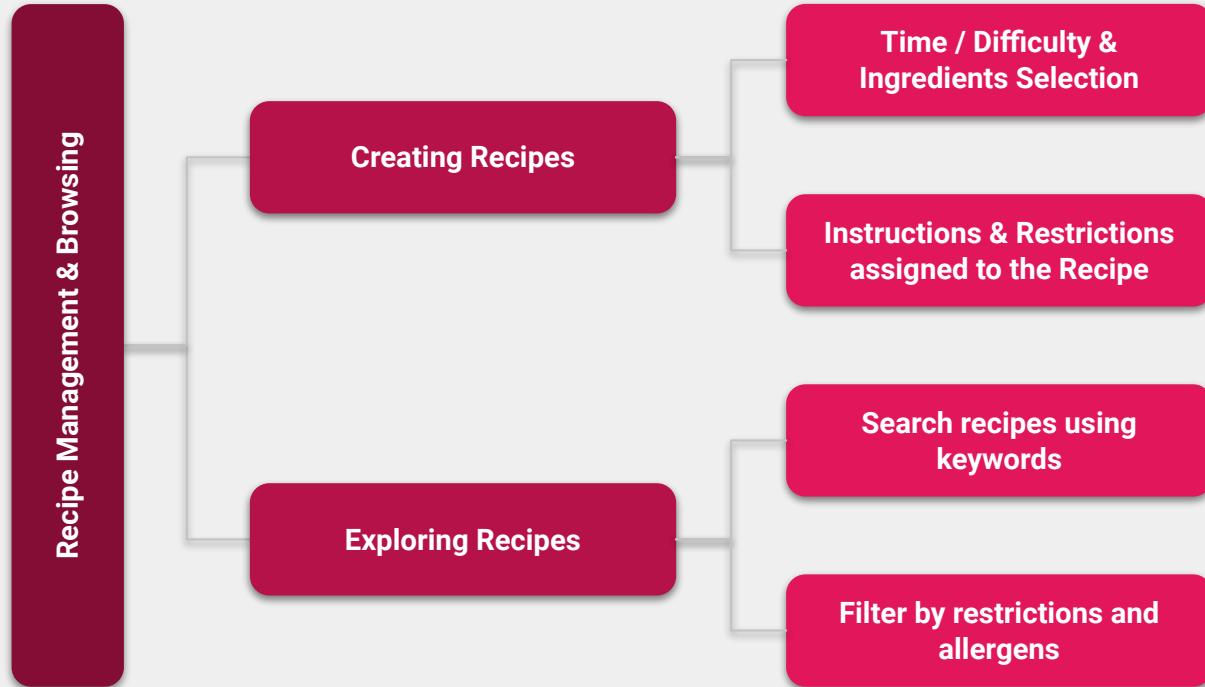
EXPLORE

Discover new recipes by browsing popular or affordable options, with search filters for ingredients, preparation time, and meal type.

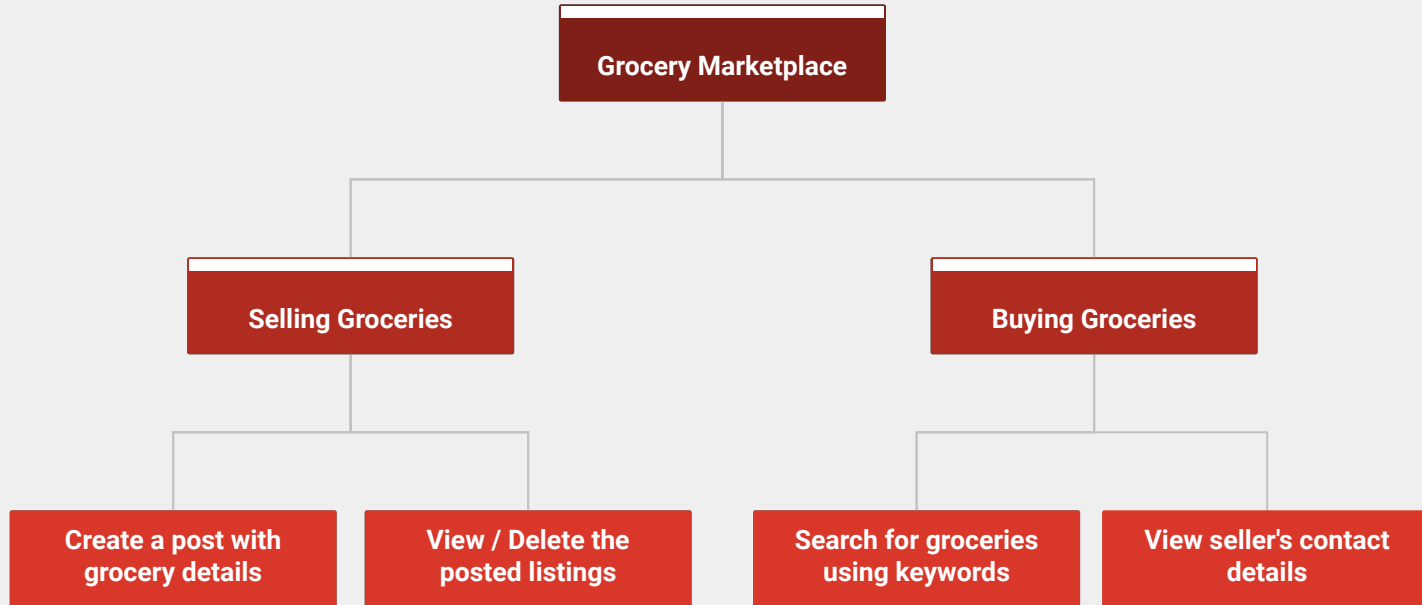
PROFILE MANAGEMENT

Manage personal details, access saved recipes, and view contributed grocery listings in one convenient dashboard.

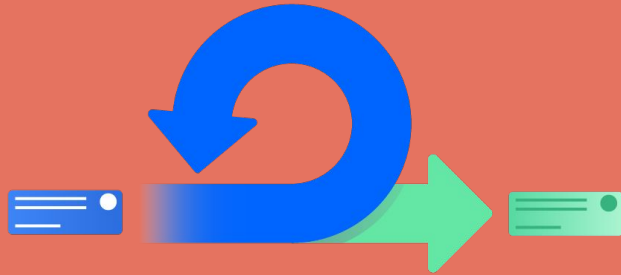
RECIPE MANAGEMENT



MARKETPLACE



AGILE HIGHLIGHTS



Recent projects

Software Engineering Fall 2024 Team2



Software Engineering Fall...

Team-managed software

QUICK LINKS

My open work items 0

Done work items

1 board ▾

		DEC			
T	W	T	F	S	S
17	18	19	20	21	22
✓ Production					
✓ Production					
✓ Production					

Project Milestones

EXPLORING

Initial Setup
Sprint 1

API Development
(US1)

COLLABORATION
Live collaboration

SCOPING

UI- API
Integration (Sprint
2)

Task Prioritization
US1 , US2

Feature Mapping

DESIGNING

Frontend Design
UI Wireframes

Integrations
Recipe View Page

Database Schema
Design

DEVELOPING

Feature Integration
US3, US4

Backend
Optimization
Fixing API issues

Testing pipeline
Setup

TESTING

UI/UX Testing
Frontend tests
passing

Backend Testing
Sprint 4

Bug Fixes and
enhancements

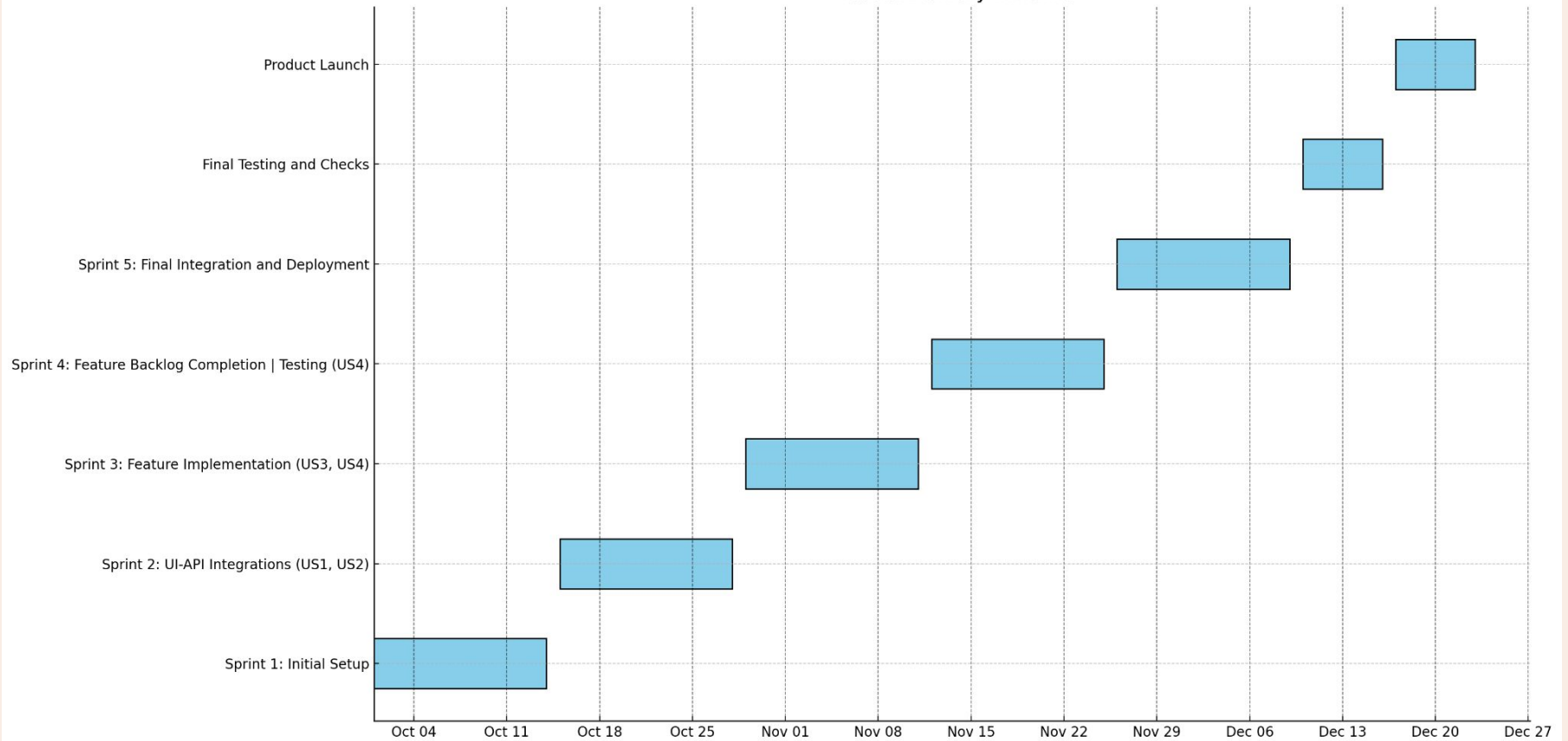
DEPLOYMENT

Final Integration
and Deployment
Sprint 5

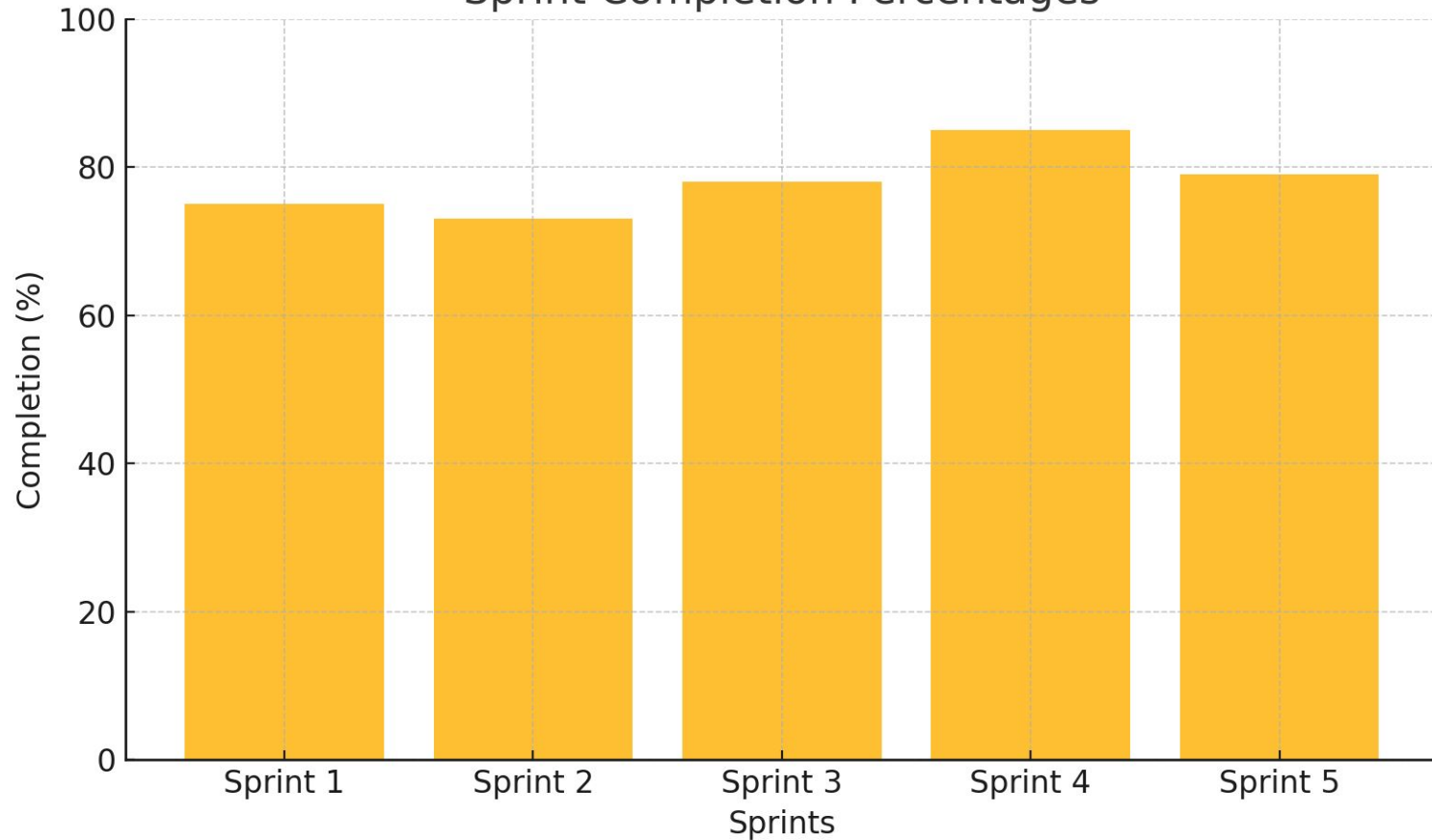
Final Testing and
Checks

Product Launch

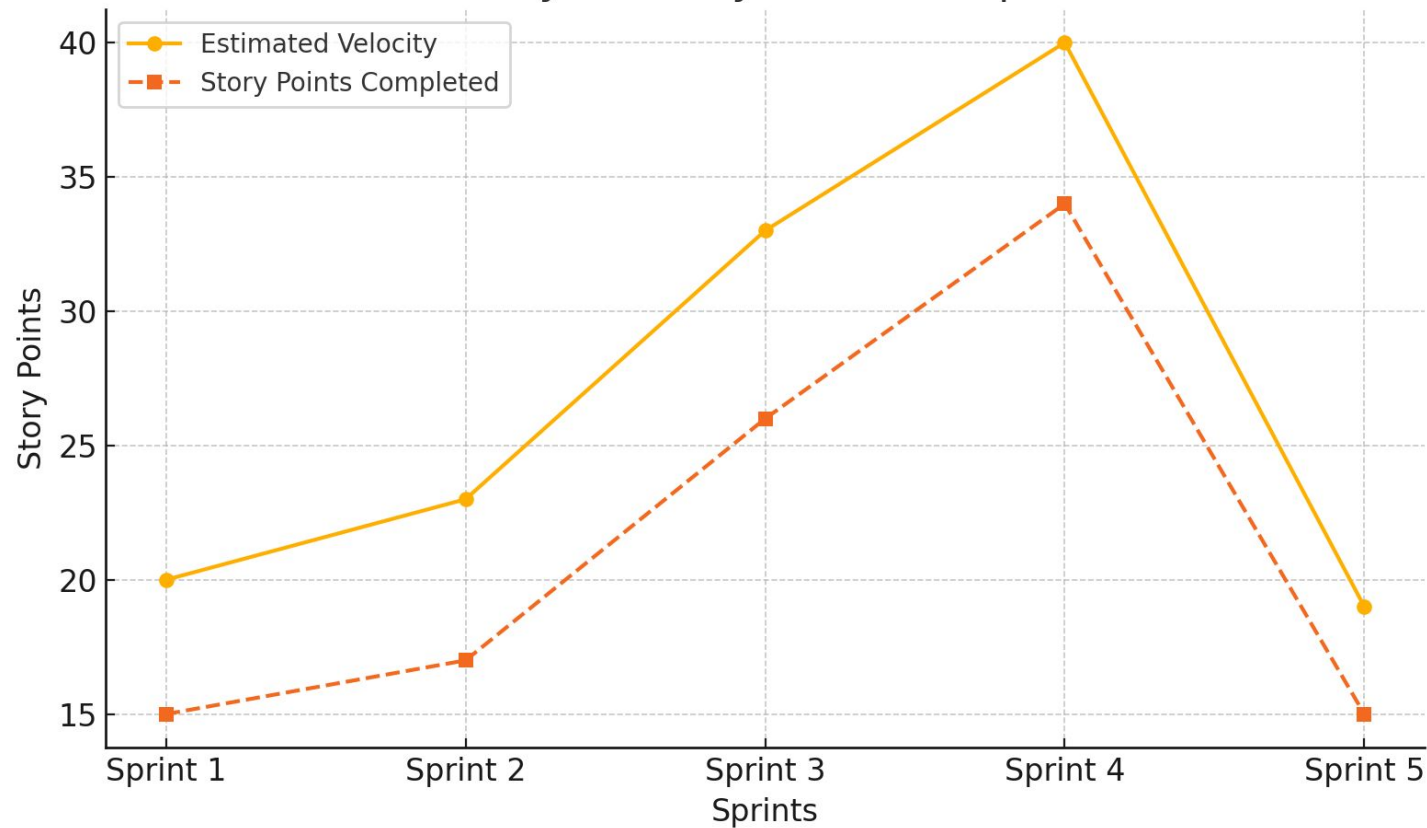
Product Delivery Timeline



Sprint Completion Percentages



Velocity vs. Story Points Completed



RETROSPECTIVE

Accomplishments	Improvements	Takeaways	Future Goals
Successfully developed a functional platform for recipe management, browsing, grocery marketplace, and user-friendly features.	Enhance the recipe platform by integrating social features that allow users to share, comment, and collaborate on recipes, transforming it into a vibrant community-driven app.	<p>We achieved consistent progress across all 5 sprints, incrementally improving our skills and deliverables with each iteration. By adopting agile methodologies and industry best practices, we enhanced our ability to execute tasks efficiently, and implement CI/CD pipelines alongside robust testing strategies.</p> <p>Each sprint built upon the last, resulting in a steady alignment with software engineering standards and an overall growth in our technical and project management capabilities.</p>	Collaborate with universities and campus networks to create a student-driven ecosystem where users can share recipes, sell surplus groceries, and build a connected community focused on affordable and sustainable living.

API Integration Issues: Incorrect API payload caused front-end data ingestion problems, leading to delays

Recipe Management Integration: Model relationship issues slowed progress, requiring further debugging for seamless integration.

Testing on Incorrect Branch: Mistakenly testing directly on the dev branch led to temporary disruptions, resolved early to avoid merge conflicts.

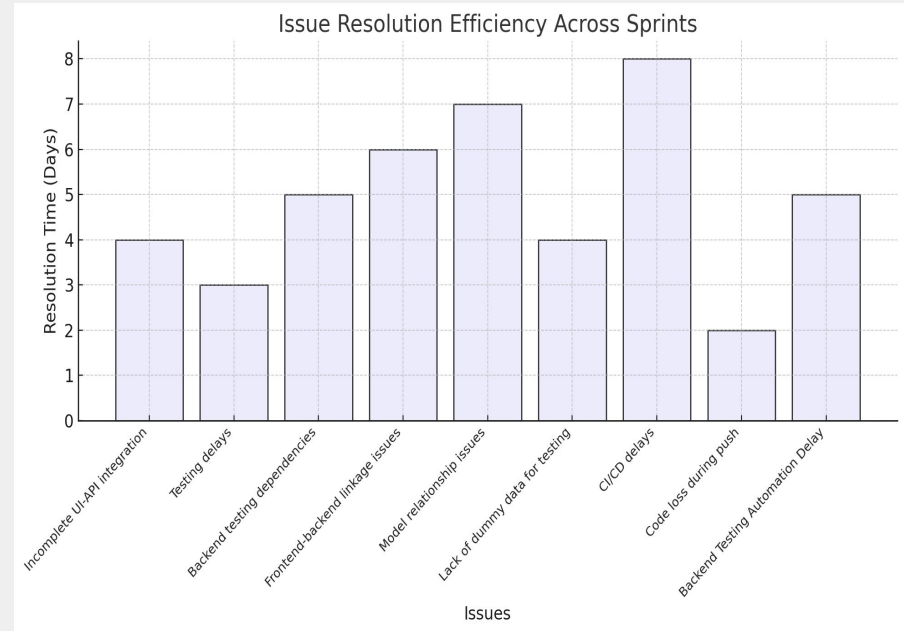
CI/CD Pipeline Delay: Slow configuration of the CI/CD pipeline affected deployment timelines and overall team pace.

Object Model Revisions: Required rework of object model definitions to improve efficiency before further API development.

Code Loss During Push: Human error caused code loss during SF - 45 push

Backend Testing Lag: Delays in backend testing due to limited tech stack familiarity and communication issues, now being addressed with redistributed tasks.

Risks and Challenges



Successful Automated Testing

Summary

Jobs

test

build

deploy

Run details

Usage

Workflow file

test

succeeded 19 minutes ago in 43s

Search logs

11s

Run tests

67	recipes/migrations/0001_initial.py	7	0	100%
68	recipes/migrations/0002_allergen_dietaryrestriction_remove_recipe_rating_and_more.py	6	0	100%
69	recipes/migrations/0003_preload_allergens_and_restrictions.py	13	0	100%
70	recipes/migrations/0004_add_new_allergen.py	8	0	100%
71	recipes/migrations/0007_recipe_average_rating.py	4	0	100%
72	recipes/migrations/0008_alter_recipe_image.py	4	0	100%
73	recipes/migrations/__init__.py	0	0	100%
74	recipes/models.py	50	11	78%
75	recipes/serializers.py	114	40	65%
76	recipes/test_search_filter.py	66	0	100%
77	recipes/tests.py	67	0	100%
78	recipes/urls.py	3	0	100%
79	recipes/views.py	130	49	62%
80	user_accounts/__init__.py	0	0	100%
81	user_accounts/admin.py	1	0	100%
82	user_accounts/apps.py	4	0	100%
83	user_accounts/migrations/0001_initial.py	7	0	100%
84	user_accounts/migrations/0002_user_saved_recipes.py	4	0	100%
85	user_accounts/migrations/__init__.py	0	0	100%
86	user_accounts/models.py	17	2	88%
87	user_accounts/serializers.py	23	10	57%
88	user_accounts/tests.py	91	0	100%
89	user_accounts/urls.py	3	0	100%
90	user_accounts/views.py	21	1	95%
91	-----			
92	TOTAL	1079	180	83%
93				
94	Required test coverage of 80% reached. Total coverage: 83.32%			
95	32 passed in 9.82s			

Total Test Cases	Required Test Coverage	Total Coverage Reached
32	80%	83.32%

Acknowledgement

We would like to extend our sincere gratitude to:

- **Prof. Saremi** For guiding us throughout the course, sharing invaluable insights, and fostering an environment of growth and learning.
- **Our TA** For providing continuous support, timely feedback, and helping us overcome challenges.
- **Our Peers:** For the collaborative discussions, encouragement, and shared knowledge that enriched our experience.

This class has been instrumental in helping us apply theoretical concepts to real-world problems, refine our technical and management skills, and successfully deliver this project.

Thank you for an incredible learning journey!



Thank You!